

CLAIMS

1. An assembly including a first, second and third components and a first and second fixing members, the first, second and third components having respective first, second and third holes, the first hole being a threaded hole, in which the first fixing member cooperates with the second hole and a first threaded portion of the first fixing member engaging the first hole to secure the first component to the second component, at least one of the fixing members cooperating with the third hole with the first fixing member engaging the second fixing member to secure the third component to the first component, in which the first component is situated between the second and third component.
2. An assembly according to Claim 1 in which a first feature on the first component engages a first feature on the second component to align the first component relative to the second component.
3. An assembly according to Claim 1 in which the second component has a first surface for engagement with the first fixing member to align the second component relative to the first component.
4. An assembly according to Claim 1 in which a first feature on the third component engages a second feature of the first component to align the first component relative to the third component.
5. An assembly according to Claim 2 in which the first feature of at least one of the components is a recess.
6. An assembly according to Claim 2 in which the first feature of at least one of the components is a projection.
7. An assembly according to Claim 4 in which at least one the first feature of the third component and the second feature of the first component is a recess.
8. An assembly according to Claim 4 in which at least one of the first feature of the third component and the second feature of the first component is a projection.

9. An assembly according to Claim 2 in which at least one of the first feature of the first component and the first feature of the second component is contiguous with at least one of the holes.

10. An assembly according to Claim 4 in which at least one of the first feature of the third component and the second feature of the first component is contiguous with at least one of the holes.

11. An assembly according to Claim 2 in which a first feature on the third component engages a second feature of the first component to align the first component relative to the third component and the first and second features of the first component are on opposite sides of the first component and are aligned.

12. An assembly according to Claim 9 in which the first feature of the first component is at least one of a recess and a projection and the second feature of the first component is at least one of a recess and projection.

13. An assembly according to Claim 10 in which the first component is made from metal, with the first hole being at least partially formed by a pressing operation and with the first and second features being at least partially formed by a pressing operation.

14. An assembly according to Claim 1 in which the third component has a first surface for engagement with at least one of the first and second fixing members to align the third component relative to at least one of the first and second components.

15. An assembly according to Claim 1 in which the first component is sealed relative to the second component and the first component is sealed relative to the third component.

16. An assembly according to Claim 1 designed such that forces acting on the first fixing member prevents rotation of the first fixing member relative to the first component during securing and releasing of the third component by the second fixing means.

17. An assembly according to Claim 1 in which the first threaded portion has a diameter which is greater than the diameter of the second threaded portion.

18. An assembly according to Claim 1 in which the first threaded portion has a pitch which is different from the pitch of the first hole, and the second threaded portion has a pitch which is substantially equal to the pitch of the second fixing member.

19. A method of assembling a door assembly comprising the steps of:

providing a first, second and third components and a first and second fixing members, the first, second and third components having respective first, second and third holes, the first hole being a threaded hole, in which the first fixing member cooperates with the second hole and a first threaded portion of the first fixing member engaging the first hole to secure the first component to the second component, at least one of the fixing members cooperating with the third hole with the first fixing member engaging the second fixing member to secure the third component to the first component, in which the first component is situated between the second and third component;

assembling the first and second component to form a subassembly; and

assembling the third component to the subassembly.

20. A method of maintaining an assembly comprising the steps of:

providing a first, second and third components and a first and second fixing members, the first, second and third components having respective first, second and third holes, the first, second and third components having respective first, second and third holes, the first hole being threaded, in which the first fixing member cooperates with the second hole and a first threaded portion of the first fixing member engaging the first hole to secure the first component to the second component, at least one of the fixing members cooperating with the third hole with the first fixing member engaging the second fixing member to secure the third component to the first component, in which the first component is situated between the second and third component;

removing the second fixing member;

removing the third component;

replacing the third component; and

replacing the second fixing member.